

Date: Mon, 23 Aug 93 04:30:14 PDT
From: Ham-Ant Mailing List and Newsgroup <ham-ant@ucsd.edu>
Errors-To: Ham-Ant-Errors@UCSD.Edu
Reply-To: Ham-Ant@UCSD.Edu
Precedence: Bulk
Subject: Ham-Ant Digest V93 #22
To: Ham-Ant

Ham-Ant Digest Mon, 23 Aug 93 Volume 93 : Issue 22

Today's Topics:

 How to use dip oscillator on an antenna?
 loading coils
 Need Deisgn Ideas for 1296MHz colinear vertical
 Need information on duplexers (2 msgs)
 Q: on how to determine if antenna is hooked to good ground

Send Replies or notes for publication to: <Ham-Ant@UCSD.Edu>
Send subscription requests to: <Ham-Ant-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Ant Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-ant".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Tue, 17 Aug 1993 18:55:04 GMT
From: mcsun!sun4nl!bsoatr!bsrofa!rob@uunet.uu.net
Subject: How to use dip oscillator on an antenna?
To: ham-ant@ucsd.edu

algol@stein.u.washington.edu wrote:

: Does anyone out there have any experience using a dip oscillator on
: antennas? I'm finding that unless the antenna has a lumped inductance to
: couple into I have no luck getting a dip. I've followed Moxon's advice
: in _HF Antennas for all Locations_ and made a big (12") triangular loop
: with two turns, but I'm still not having much luck. Any suggestions?
: Capacitive coupling? A BIGGER loop? Does listening for a dip with audio
: modulation really help that much (my dipper is homebrew -- it wouldn't
: take much to add 1000 Hz square wave modulation)? Tips, hints, sea stories
: all welcome... does anyone even use dippers anymore?

: Thanks,

: Sherm Lovell, WY7F algol@u.washington.edu

The right thing to do is to put the dipper in the middle of the antenna, to get the best coupling.
Next, use a field strength meter on the end of the antenna, the voltage maximum. You can *** VERY EASY *** see the resonance of your wire by tuning the dipper!

Method copyrighted by

Robert, PA2JOB, 73.

--

Robert Faass Email: rob@bsrofa.atr.bso.nl

Date: Sun, 22 Aug 1993 22:41:52 GMT
From: usc!howland.reston.ans.net!newsserver.jvnc.net!newsserver.egr.uri.edu!orca!
swamik@network.ucsd.edu
Subject: loading coils
To: ham-ant@ucsd.edu

The arrl advanced class license manual talks about the need for base loading coils. But what inductance value should I use for a 4 foot 20m whip, or a 5/8 wave 2m whip? A whip which is less than 1 wavelength has capacitive reactance because it is less than a wavelen right? (Correct me if im wrong) Therefore the inductive reactance should = the cap reac of the whip at the desired operating freq, right (thats resonance). Therefore I guess I should build a coil which will = the cap reac of the whip at the op freq. But how do I calculate the ap reac of the whip?

tnx es 73s de kb1amb/ae

+++++
Swami Kumaresan
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KB1AMB/AE Extra Class Amateur Radio Operator
I Monitor 147.165/.765 Repeater
& 20 meter band (SSB & CW)

73s

Date: Sun, 22 Aug 1993 20:05:41 GMT
From: usc!howland.reston.ans.net!vixen.cso.uiuc.edu!moe.ksu.ksu.edu!usenet-
feed.umn.edu!gbuffering@network.ucsd.edu
Subject: Need Design Ideas for 1296MHz colinear vertical
To: ham-ant@ucsd.edu

Hello all. Does anyone have experience with designing and building a colinear
vertical
(>10 sections) for 1296MHz? I am interested in building an antenna for my
repeater as
opposed to spending \$\$\$ to buy one. Please e-mail.
73 Gavin

Gavin D. Buffington N0ECQ
Department of Physics University of Missouri-Rolla
(314)341-4347 gbuffering@physics.umn.edu
RF: 1284.6- MHz 443.825+ MHz 145.45- MHz

Date: Wed, 18 Aug 1993 10:17:25 GMT
From: munnari.oz.au!spool.mu.edu!sol.ctr.columbia.edu!destroyer!
newsrelay.iastate.edu!news.iastate.edu!jdwhite@network.ucsd.edu
Subject: Need information on duplexers
To: ham-ant@ucsd.edu

I would like to learn more about duplexers and how to maintain and
"configure" them. Any suggestions on where I might look for some good
information. I looked in the '92 Handbook, but all I found was a paragraph on
what duplexers were; nothing on how to maintain them.

-Jason White, NORWU
Repeater Chairman, WA0KHF Repeater
Cyclone Amateur Radio Club
Iowa State University
Ames, Iowa

Date: 18 Aug 1993 19:56:48 GMT
From: munnari.oz.au!sgiblab!swrinde!elroy.jpl.nasa.gov!merlin.JPL.NASA.GOV!
no6b@network.ucsd.edu

Subject: Need information on duplexers
To: ham-ant@ucsd.edu

In article <CBy9x3.IGt@news.iastate.edu> jdwhite@iastate.edu (Jason White) writes:
> I would like to learn more about duplexers and how to maintain and
>"configure" them. Any suggestions on where I might look for some good
>information. I looked in the '92 Handbook, but all I found was a paragraph on
>what duplexers were; nothing on how to maintain them.
>

Try the ARRL publication "FM & repeaters". Don't know how well they've been updating it recently but in the past it's been way out of date. However, there were instructions in the 1980 printing on how to build one, & duplexer technology doesn't change much over the years. In what way do you want to "maintain" your duplexers? Once they are tuned they generally don't require any tinkering.

Date: Mon, 16 Aug 1993 18:56:55 GMT
From: mcsun!sun4n1!bsoatr!bsrofa!rob@uunet.uu.net
Subject: Q: on how to determine if antenna is hooked to good ground
To: ham-ant@ucsd.edu

Jeffrey Perry (j.perry@lynx.dac.northeastern.edu) wrote:
: I am designing a variation of the 2m on the glass vertical that appeared
: in QST recently. I have located a screw on the back of the hatch back
: which seems to go into the car body (part of the hatch-back) I need to
: check this screw to see if it is a good ground. The screw has a black
: enamel surface which I may need to sand to get a good connection. I
: don't have a volt meter. Is there a simple way I can check this ground
: location? If not, I can probably get a volt meter. What would the method
: be then?

: Please email responses. Thanks in advance!

: Jeffrey Perry
: N1ILY

Check it with the + of the car battery (leave the - connected to the car body), if you see sparks the connection to the car body is ok!

Robert, PA2JOB.

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Robert Faass Email: rob@bsrofa.atr.bso.nl

End of Ham-Ant Digest V93 #22
